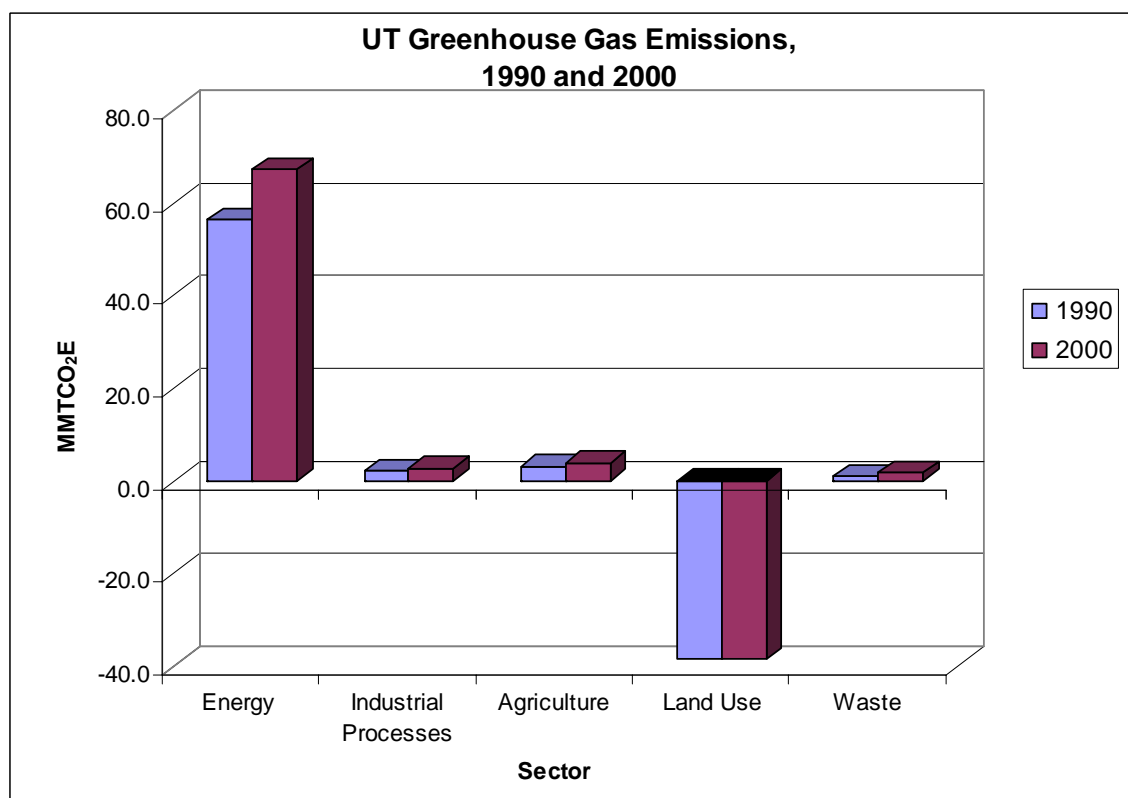


## UTAH GREENHOUSE GAS EMISSIONS AND SINKS INVENTORY: SUMMARY



The Utah Department of Environmental Quality report, *Final Utah Greenhouse Gas Inventory and Reference Case Projections 1990-2020*, contains an inventory of Utah's greenhouse gas (GHG) emissions from 1990 to 2000.<sup>1</sup>

In 1990, Utah emitted GHGs in the amount of 24.3 million metric tons carbon dioxide equivalent (MMTCO<sub>2</sub>E). In 2000, GHG emissions increased to 37.3 MMTCO<sub>2</sub>E, an overall increase of 53 percent from 1990 to 2000.

From 1990 to 2000, emissions from the waste sector increased by 55 percent due to an increase in waste imports to Utah's landfills which generally do not have landfill gas controls. During this same time period, emissions from industrial processes and agriculture increased by 27 and 29 percent, respectively. Energy sector emissions increased to 67.3 MMTCO<sub>2</sub>E in 2000, a total increase of 19 percent between 1990 and 2000. This sector contributes to the vast majority (89 percent) of the gross GHG emissions for 2000.

<sup>1</sup> Historical GHG emissions estimates (1990 through 2000) were developed using a set of generally accepted principles and guidelines for state GHG emissions inventories relying to the extent possible on Utah-specific data and inputs. Many of the inventory estimates came from the US Environmental Protection Agency's (EPA's) State Inventory Tool.

The land use sector provides a large sink for GHG emissions at 38.5 MMTCO<sub>2</sub>E throughout the 1990-2000 timeframe. This sector offsets 50 percent of Utah's gross GHG emissions for the year 2000.

1990	CO <sub>2</sub> (MMTCO <sub>2</sub> E)	CH <sub>4</sub> (MMTCO <sub>2</sub> E)	N <sub>2</sub> O (MMTCO <sub>2</sub> E)	HFCs, PFCs, and SF <sub>6</sub> (MMTCO <sub>2</sub> E)	Total (MMTCO <sub>2</sub> E)
Energy	*	*	*	*	56.4
Industrial Processes	*	*	*	*	2.2
Agriculture	*	*	*	*	3.1
Land Use	*	*	*	*	-38.5
Waste	*	*	*	*	1.1
<b>Net Emissions</b>	*	*	*	*	<b>24.3</b>

2000	CO <sub>2</sub> (MMTCO <sub>2</sub> E)	CH <sub>4</sub> (MMTCO <sub>2</sub> E)	N <sub>2</sub> O (MMTCO <sub>2</sub> E)	HFCs, PFCs, and SF <sub>6</sub> (MMTCO <sub>2</sub> E)	Total (MMTCO <sub>2</sub> E)
Energy	*	*	*	*	67.3
Industrial Processes	*	*	*	*	2.8
Agriculture	*	*	*	*	4.0
Land Use	*	*	*	*	-38.5
Waste	*	*	*	*	1.7
<b>Net Emissions</b>	*	*	*	*	<b>37.3</b>

Note: Totals may differ from the sum of the sources due to independent rounding. All emissions are reported in million metric tons of carbon dioxide equivalent (MMTCO<sub>2</sub>E).

\* The Utah state Inventory did not include emissions by gas; thus, emissions of all gases, expressed in CO<sub>2</sub> equivalents are presented in the right-most column.

Per capita emissions from Utah were 27 MTCO<sub>2</sub>E for the 1990-2000 timeframe, which is slightly higher than the national per capita average of 25 MTCO<sub>2</sub>E<sup>2</sup>.

<sup>2</sup> The state per capita emissions value is quoted in the Utah Inventory report and is reflective of Utah's methodological decision to include emissions from electricity consumption in state rather than electricity production. Therefore, this per capita value subtracts emissions associated with exported electricity. The national per capita average is the gross emissions level.